

KINGSTON ASH RECOVERY PROJECT

MONTHLY REPORT

November 2012

Aerial Image of Kingston Ash Slide (11/01/2012)



0 1,000 2,000 3,000 4,000
Feet

Date of imagery: 11/01/2012

Filename: ImageOnly_20121101_8x11

Tennessee Valley Authority
Realty, GIS & Land Records

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SAFETY

- Thirteen (13) individuals attended site-specific health, safety and environment (HSE) orientations during November 2012 – 2,298 project-to-date. Zero site-specific refresher courses were conducted during the month of November 2012 - 435 project-to-date.
- One hundred, eight (108) safety observation reports (SORs) were submitted during November 2012 – 3,662 year-to-date; 3,661 are closed.
- 11-5-12: A TVA facilities maintenance employee experienced a rash on the forearm when a dilute bleach solution used to clean a sign ran down his glove into his long sleeve shirt.
- 11-9-12: A GUBMK ESS mechanic lacerated the top pad of the left index finger while removing a carriage bolt from the tooth of a chisel plow. The sharp edge of the bolt head struck his gloved finger as the bolt was spun by an impact wrench.
- 11-19-12: A GUBMK SCS laborer strained/sprained their ankle while performing flagging/spotting for articulated dump trucks carrying rip-rap stone for the stilling pond buttress wall. The employee's ankle rolled when they stepped on a large rock.

INFRASTRUCTURE / ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Continued borrow excavation.
- Started Kingston Entrance Restoration project.

ASH SLURRY AND POND TOTAL SUSPENDED SOLIDS (TSS) CONTROL

- Daily total suspended solids (TSS) sampling and pH monitoring were performed throughout the ash slurry system. The TSS of the main ash pond effluent TSS averaged 37.2 mg/L and the stilling pond effluent averaged 10.5 mg/L for November 2012.
- The ash pond effluent polymer addition (Agri-Drain location) rates were adjusted based on TSS levels during November 2012. Ascetic acid was applied to control pH in the stilling pond.
- The plant began November 2012 with 8 units online; ran 9 units for most of the month and ended the month operating 8 units.

PLANT ASH STORAGE / INTERIM ASH STORAGE AREA (BALLFIELD)

- Trans Ash placed and compacted dry fly ash during the month. Geosyntec provided quality control and assurance during November 2012.
- The Kingston Fossil Plant (KIF) plant operated from 7 to 9 units during the month, average of 8.3.

CENOSPHERE CONTROL ACTIVITIES

- Daily pond inspections were performed for all ponds. Skimmer pumping from near outlet to cenosphere collection zones was carried out.
- Collection of cenospheres by hydro-vacuum truck was not carried out in November 2012.

ROUTINE MONITORING

Surface Water Sampling

- Continued reduced scope routine surface water monitoring. All monthly stilling pond results received to date have shown compliance with the outfall National Pollutant Discharge Elimination System (NPDES) permit.
- There was a rainfall event on November 12, 2012 that triggered storm flow sampling in Swan Pond Embayment.
- Automated monitoring stations (Hydrolabs) are online continuously monitoring surface water conditions at five locations in the settling basin, clean water ditch, ash pond Agri-Drains, and stilling pond. Continued daily TSS monitoring at the sluice trench, ash pond Agri-Drains and stilling pond.

Air Sampling

- All air monitoring results for the month of November 2012 from the PM2.5 TVA air samplers were below the current ambient air monitoring plan (AAMP) action levels.

Data Management

- Provided monthly surface water and air monitoring results to the EPA.

Non-Routine Sampling

- Continued sample collection and on-site moisture testing in support of dredge cell and ballfield operations.
- Continued confirmation sampling support for middle embayment ash removal.
- Continued spoils runoff sampling from the two tanks of spoils material associated with the perimeter wall project.
- Completed Fall fish bioaccumulation sample collection.
- Initiated benthic community survey and associated sediment sample collection.

DREDGE CELL

- Continued drying materials in the dredge cell and hauling dry materials to the active ash stacking.
- Geo-Con continued predrilling / jet grouting for repair of defects in Segment 7.
- Continued infill stacking along Segment 7 together with excavation of the corner of the relic at Segment 6 platform.
- Set up lime treatment boxes in the ballfield.

LATERAL EXPANSION

- Geo-Con continued PWS construction with both rigs operating in Segment 2.
- Completed Segment 2 platform where it ties into Segment 1 at dike D.
- Finished the working platform for Segment 3 and continued construction of the working platform for Segment 4.
- Began construction of a rock buttress in the stilling pond alongside Segment 3.
- Griffin began installing dewatering wells in Segment 4.
- Stacking continued in the ash pond and lateral expansion.

RIVER ENGINEERING EVALUATION / COST ANALYSIS (EE/CA) AND BASELINE ECOLOGICAL RISK ASSESSMENT (BERA)

- EPA approved the final action memorandum for the river system and held a public meeting.
- Prepared a draft Removal Action Work Plan for the river system for EPA/TDEC review.

EMBAYMENT RESTORATION AND RECREATION AREA DEVELOPMENT

- Lakeshore Phase 1 bidder evaluation continued. Two contractors provided bids.
- Reviewed designs to see if changes could improve schedule.
- Contoured bottom of the western portion of the middle embayment.

MIDDLE EMBAYMENT

- Ash removal from the middle embayment was performed during the month.
- Weekly middle embayment status reports were submitted.
- Concurrence KIF-12-003 was submitted for approval.
- Rock from T-2 sediment pond was recovered for use in other features.

OUTREACH / COMMUNICATIONS

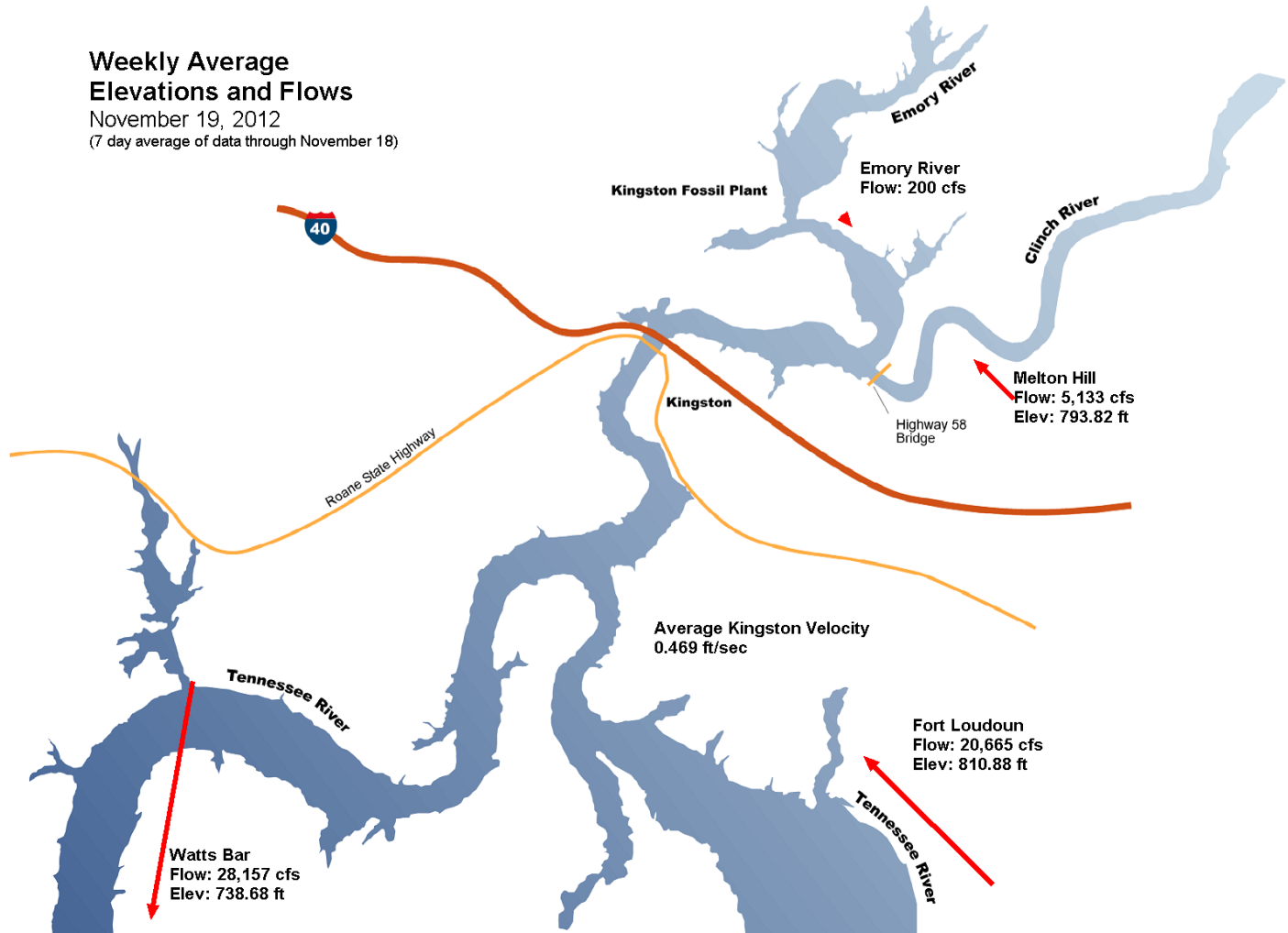
- Added weekly area resident updates to Kingston Ash Recovery website.
- Sent weekly updates to the Community Advisory Group (CAG), public officials and members of the public who have signed up to receive weekly emails.
- Updated administrative record with work plans and relevant documents.
- Continued to respond to calls from residents.
- Updated site bulletin boards.
- Prepared and published newspaper advertisements regarding the River System Action Memorandum Public Meeting and Public Comment Period.
- Conducted Public Meeting November 8, 2012 to discuss the River System Action Memorandum, which describes the chosen alternative to deal with residual ash remaining in the river.

RIVER OPERATIONS

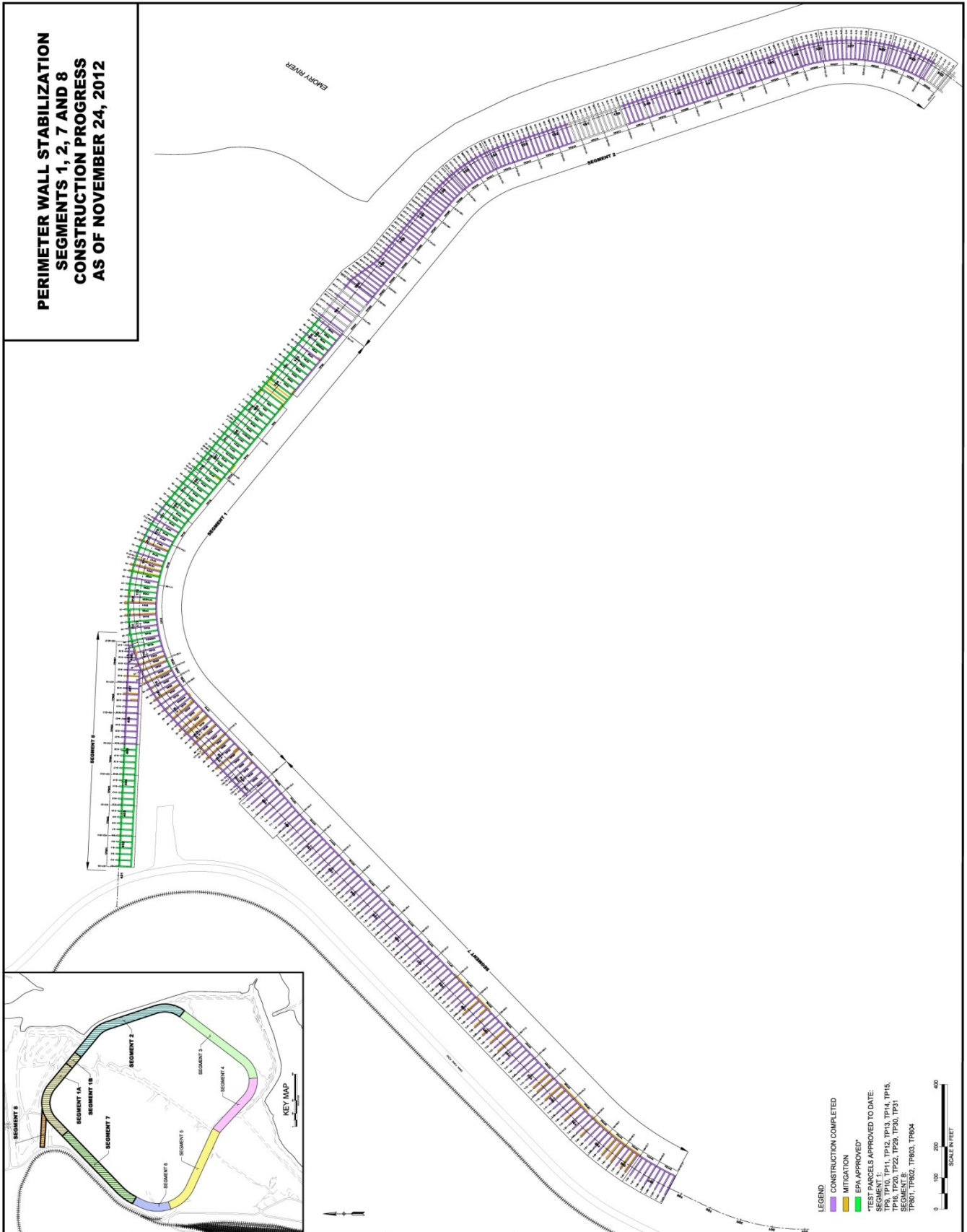
Weekly Average Elevations and Flows

November 19, 2012

(7 day average of data through November 18)



**PERIMETER WALL STABILIZATION
SEGMENTS 1, 2, 7 AND 8
CONSTRUCTION PROGRESS
AS OF NOVEMBER 24, 2012**

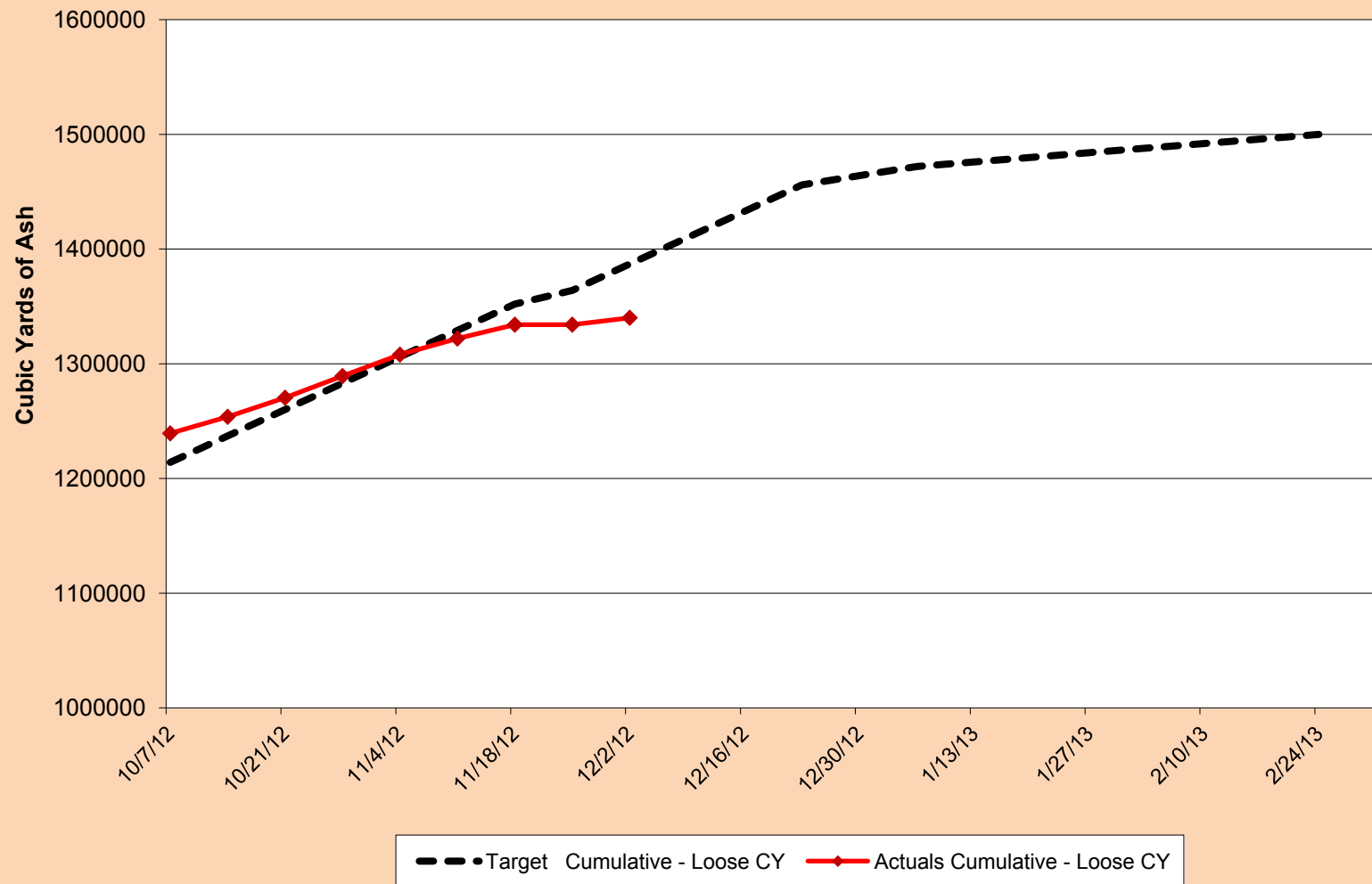


Kingston Ash Recovery Project			November 2012		Field Report
Safety			Monthly Total	FY – Cumulative Total	
Near Misses			0	0	
First Aid Incidents			3	5	
Recordable Incidents			0	0	
Recordable Lost Time Incidents			0	0	
Environmental	Matrix	Samples	Analyses	Results	
Organization - TVA	Surface / Utility Water	5,771	48,418	242,175	
Organization - TVA	Groundwater (Spring & Well)	259	2,704	13,223	
Organization - TVA	Ash	753	1,262	9,280	
Organization - TVA	Soil / Sediment	1,566	3,201	23,285	
Organization - TVA	Biota	5,185	12,514	132,878	

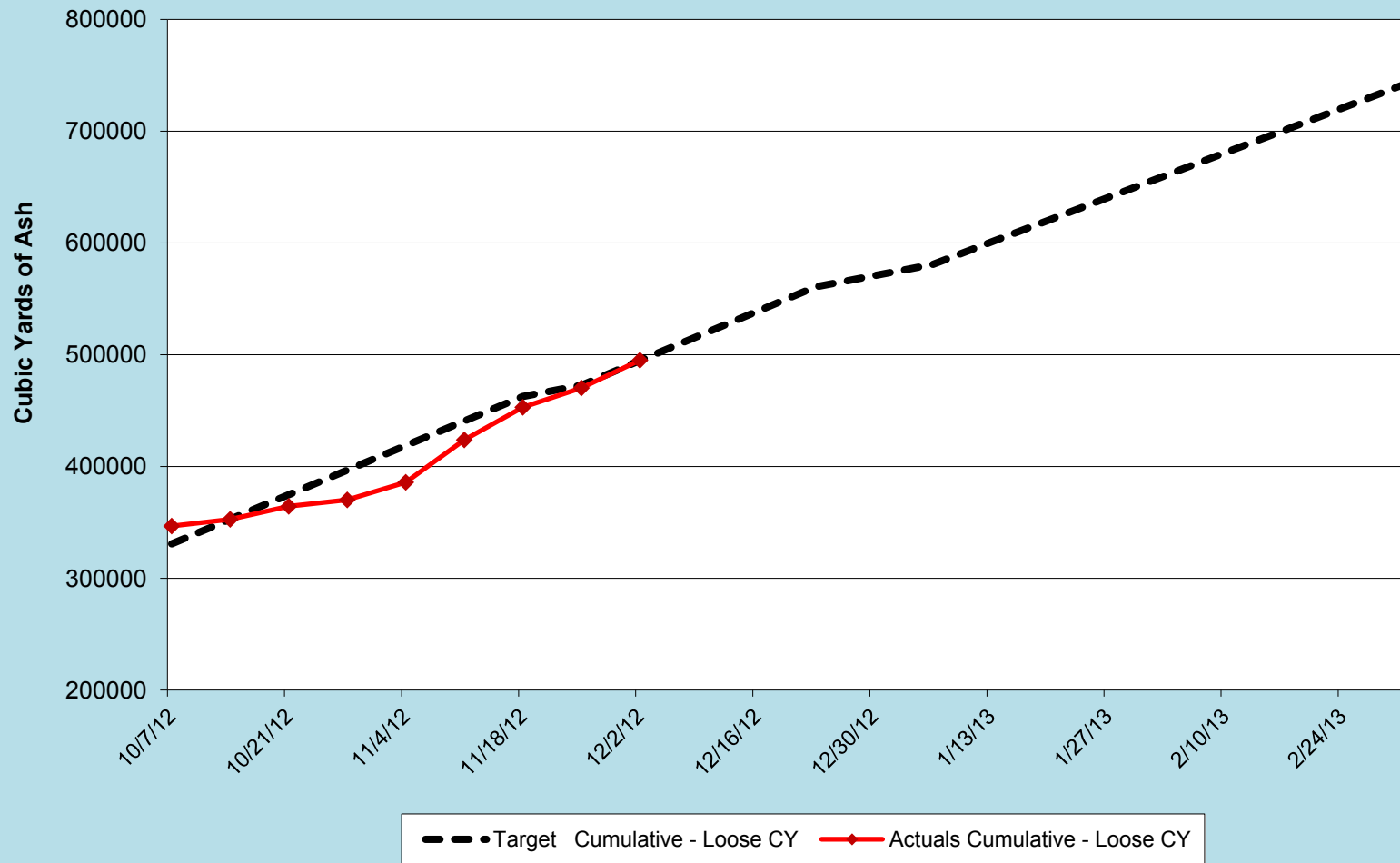
Work Description	Period Work Performed (CYIP)	PTD Work Performed (CYIP)
Ash Removal / Excavation		
Total Removed from Middle Embayment	32,954	965,811
Total Removed from North Embayment	-	1,010,322
Total Removed from Settling Basins / Dike 2	760	32,369
Excavated Total	33,714	2,008,502
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Placement		
Total Placed in Dredge Cell	75,507	1,324,889
Total Placed in Lateral Expansion	9,960	593,327
Total Placed in Ash Pond	(320)	393,948
Placed Total	85,147	2,312,163
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Storage Handling		
Total Removed from Lateral Expansion	-	53,657
Total Removed from Dredge Cell	90,707	771,776
Total Removed from Ballfield	265	456,741
Removed from Storage Total	90,972	1,282,174
Net Removed to(from) Ballfield Storage	7,358	(125,208)

For period ending November 30, 2012.

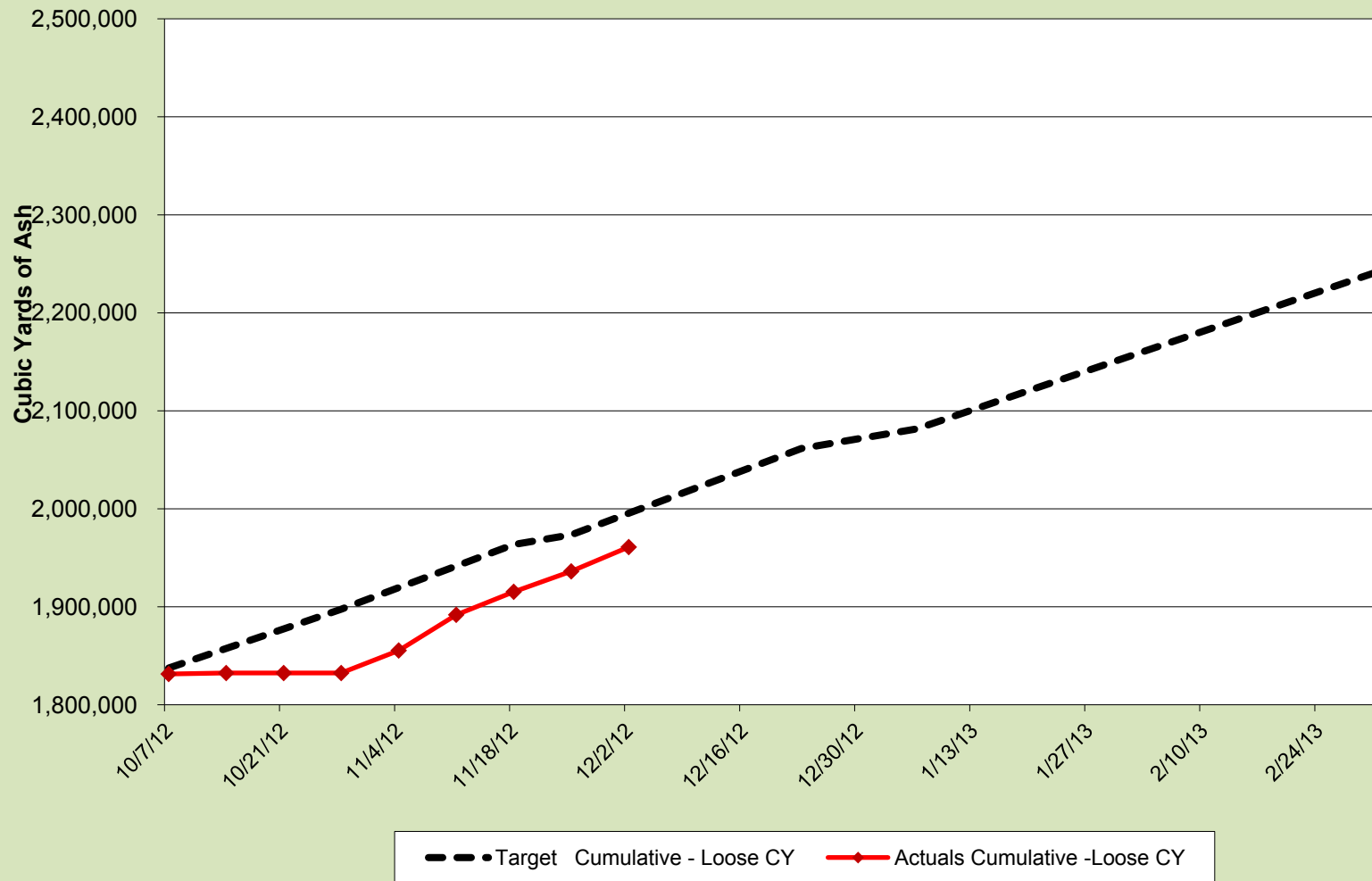
Ash Excavation from Middle Embayment Weekly as of December 2, 2012



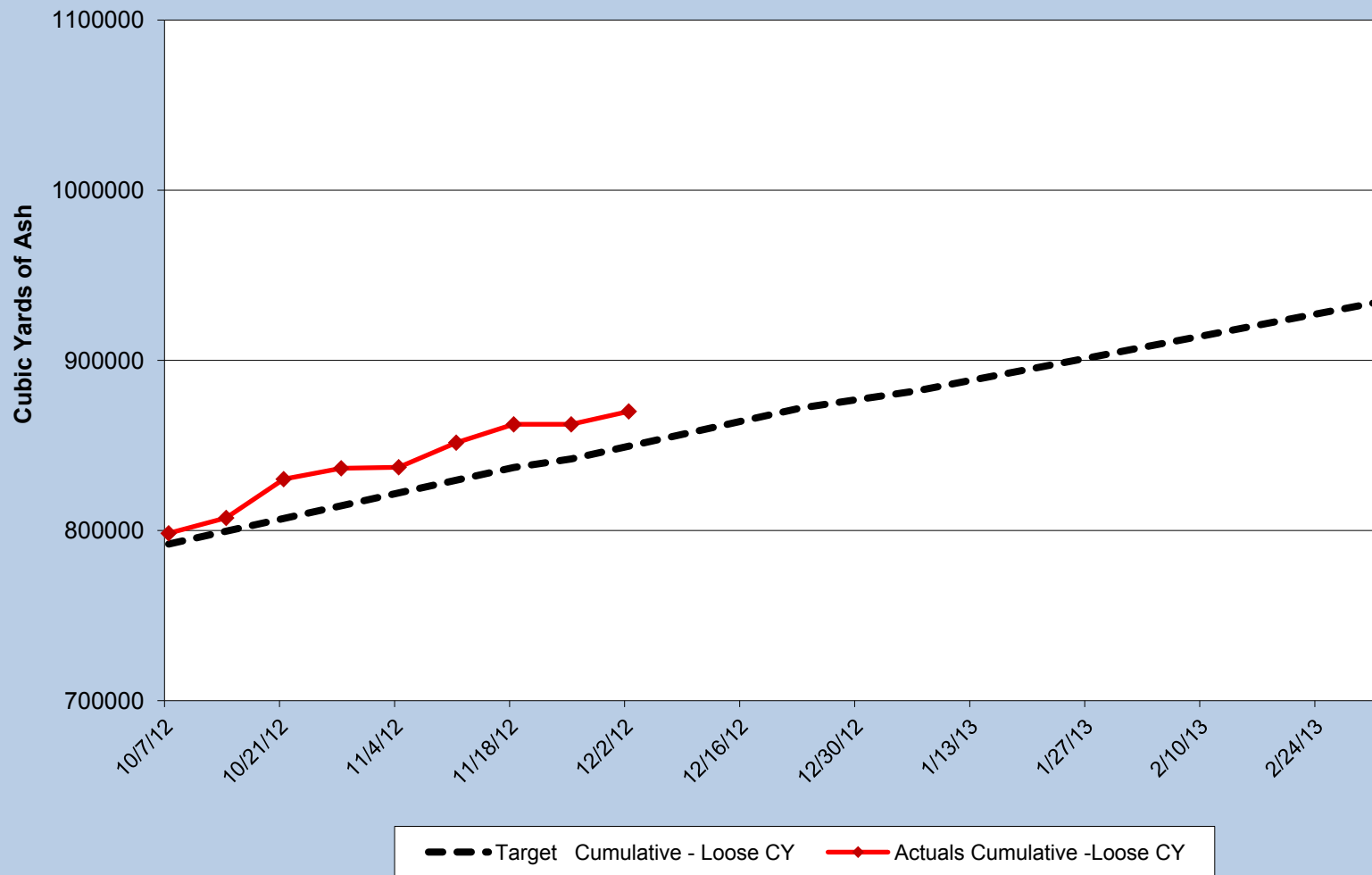
**Ash Excavation from Dredge Cell Relic
Weekly as of December 2, 2012**



Ash Stacking in Dredge Cell Weekly as of December 2, 2012



**Ash Stacking in Lateral Expansion
Weekly as of December 2, 2012**



**Perimeter Wall Stabilization Segment 1, 8, 7 & 2
Weekly as of December 2, 2012**

